lyondellbasell

Clyrell EC310K

Polypropylene, Impact Copolymer

Product Description

Clyrell EC310K is a medium flow heterophasic copolymer specially designed for film applications. Films produced with *Clyrell* EC310K will show very good gel level and good heat seal properties.

Clyrell EC310K films are also characterized by an excellent balance of toughness, low temperature impact, mechanical properties, easy processing and low stress whitening. Major *Clyrell* EC310K applications are extrusion of films for lamination, adhesive tapes, labeling films, thermoformed containers, stationery and protective films and food packaging.

Clyrell EC310K contains no slip or antiblocking agents.

Clyrell EC310K is suitable for food contact.

Product Characteristics

Status	Commercial: Deactivating
Test Method used	ISO
Availability	Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Calandering, Cast Film
Features	Impact Copolymer, Medium Flow, Medium Gloss , Good Processability
Typical Customer Applications	Bags & Pouches, Cast Film, Film, Food Packaging Film, Lamination Film, Thermoformed Food Containers

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.900	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	3.5	g/10 min
Mechanical			
Tensile Modulus (1 mm/min)	ISO 527-1, -2	1150	MPa
Tensile Stress at Yield (50 mm/min)	ISO 527-1, -2	27.0	MPa
Tensile Strain at Break (50 mm/min)	ISO 527-1, -2	600	%
Tensile Strain at Yield (50 mm/min)	ISO 527-1, -2	12	%
Impact			
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		20	kJ/m²
(-20 °C, Type 1, Edgewise, Notch A)		3	kJ/m²
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	83	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	150	°C

Additional Properties

Typical Properties; not to be construed as specifications

Notes

Typical properties; not to be construed as specifications.